

Math 467, MWF 10:00, Room E206

Lecturer: Alexander Hulpke, Weber 217

Office Hours: See <http://www.math.colostate.edu/~hulpke/officetimes.html>
Tentatively: M11, W2, F1 – let me know if these times do not work for you.

Email: hulpke@math.colostate.edu

WWW: <http://www.math.colostate.edu/~hulpke/lectures/m467>

Phone: 491-4288

Textbook: Peter Cameron, *Introduction to Algebra*, 2nd ed., Oxford UP, ISBN 978-0-19-852793-0. We probably won't be following the textbook slavishly and you may be able to use other books, in particular if your class notes are servicable.

In this course, we will be covering (part of) chapters 4,5,7 and 8: Linear Algebra and Modules, Resultants and Groebner bases (via handouts), Structure of groups, Galois theory

Exams

There will be a take-home final.

Grades

will be based on homework and class participation (75%), and final (25%). Grades will be given on a linear scale with about 50% corresponding to D and 90% to A.

I expect to see you regularly in class and to regularly hand in solutions to the homework problems.

Homework

Homework will be handed out every monday in the lecture, and is due at the start of the lecture of the wednesday of the following week. (I'm happy to move this to Friday.) Late homework will be accepted only if the delay is due to reasons beyond your control.

Because of time restrictions, only to some of the problems can be treated in class, but I'm happy to go through any problems during office hours.

Computer use

Some problems will involve calculations that would be tedious to do by hand or with a simple pocket calculator. For these we will be using the computer algebra system GAP.

This program is installed on the PCs in the Mathematics lab. If you want to install it on your home PC (Linux/Windows/Mac) you can either download the program from <http://www.math.colostate.edu/~hulpke/CGT/education.html> or borrow a CD-ROM from me. (You won't be examined about the use of this program.)

More about this program later.

I wish you success with this course and all the best for the coming semester.